IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Resolutions for Instance Comments in CC40 - Part 6 | | | | |
| Date: 2022-11-22 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Cheng Chen | Intel |  |  | cheng.chen@intel.com |
|  |  |  |  |  |

Abstract

This submission proposes resolutions to several comments submitted in CC40 under Instance topic. The CIDs are referring to D0.1. The text used as reference is D0.4.

CIDs: 349 436 500 565 537

Revision history:

R0: Original version

R1: Minor editorial changes at the TGbf call on Nov. 29th

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CID** | **Clause** | **Page** | **Comment** | **Proposed change** |
| 349 | 11.21.18.7 | 71.61 | "If the non-AP STA is only the sensing transmitter, the Sensing NDP Announcement frame should configure the R2I NDP to be transmitted with minimum possible length with one LTF symbol. If the non-AP STA is only the sensing receiver, the Sensing NDP Announcement frame should configure the I2R NDP to be transmitted with minimum possible length with one LTF symbol." The definition shall provide reference to the specific NDPA parameters, and shall specify how to achieve the minimal length. | Provide the text how to achieve the minimal length |
| 436 | 11.21.18.7 | 71.62 | "with minimum possible length with one LTF symbol" - cumbersome | consider replacing with "with the minimum possible length of one LTF symbol" twice in this paragraph |
| 500 | 11.21.18.7 | 71.62 | The term as minimum possible length with one LTF symbol for R2I and I2R NDP is a bit unclear since the length of LTF with GI configuration is variable (e.g. 2x/4x LTF, 1.6/3.2us GI). The intention is understandable but it would be better to rephase the text more precisely. | As in comment, e.g. adding "by the supported LTF type and GI duration". |
| 565 | 11.21.18.7 | 71.61 | The text from P71L61 to P71L65 seems to look unclear. here, what is the size of one OFDM symbol? OFDM symbol for LTF is configured variously according to the LTF type and size of CP. to clarify it, define which type of LTF and CP is used for the I2R NDP and R2I NDP. Also, define which field in the sensing NDPA is used to indicate the configuration of LTF for I2R NDP and R2I NDP and how to set this field in each case. | As in Comment. |

**Proposed resolution**:

* CID 349, 500, 565: Revised. See below for proposed spec change.
* CID 436: Accepted.

**Discussion**:

* CID 500: We have agreed that for non-TB sensing measurement instance, both the SI2SR NDP and SR2SI NDP will be using HE Ranging NDP. For HE Ranging NDP, the only supported LTF/GI mode is 2x HE-LTF with 1.6us GI.
* CID 349, 565: We have finalized the Sensing NDPA frame format in DCN1785r2, so the proposed change below instructs how to achieve the minimum possible length of one LTF symbol.

***TGbf editor, make the following change in D0.4:***

**11.55.1.5.3 Non-TB sensing measurement instance**

***3rd paragraph***

If the non-AP STA is only the sensing transmitter, the Sensing NDP Announcement frame should configure the SR2SI NDP to be transmitted by setting both the SR2SI NSTS subfield and SR2SI Rep subfield to 0. If the non-AP STA is only the sensing receiver, the Sensing NDP Announcement frame should configure the SI2SR NDP to be transmitted by setting both the SI2SR NSTS subfield and SI2SR Rep subfield to 0.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **CID** | **Clause** | **Page** | **Comment** | **Proposed change** |
| 537 | 11.21.18.5 | 68.7 | It is not clear whether the dialog Token field contains both setup ID and instance ID or not. So, to clarify it, define the configuration of the dialog token field. | Define the configuration of the dialog token field included in the frame defined in 11bf spec. |

**Proposed resolution**: Revised.

**Discussion**: We have agreed in DCN1785r2 to use the Dialog Token field within the Sensing NDPA frame to identify the measurement instance ID. For the measurement setup ID, we include it in the special STA Info field of the Sensing NDPA frame.

***TGbf editor, make the following change in D0.4:***

***Delete the following Editor’s Note in 11.55.1.5.1***

**11.55.1.5 Sensing measurement instance**

**11.55.1.5.1 General**

***Make the following change in 9.3.1.19***

The Sounding Dialog Token Number subfield in the Sounding Dialog Token (SDT) field contains a value in the range of 0 to 63, which identifies the Measurement Sounding phase that this transmitted NDP Announcement frame is part of; see 11.21.6.4.3 (TB ranging measurement exchange), ~~and~~ and 11.21.6.4.4 (Non-TB ranging measurement exchange), or identifies the Measurement Instance ID of the corresponding TB or non-TB sensing measurement instance that this transmitted NDP Announcement frame is part of; see 11.xx (TB sensing measurement instance), and 11.yy (Non-TB sensing measurement instance).

## SP

Do you support the proposed resolutions to the following CIDs and incorporate the text changes into the latest TGbf draft: 349 436 500 565 537?

Y/N/A